

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

§ §

Examiner: Unknown

Group/Art Unit: 2123

Atty. Dkt. No: 5181-98000

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to Commissioner for Patents, Washington, DC 20231, on the date indicated below.

Lawrence J. Merkel

Name of Registered Representative

**Title:** Synchronization of  
Distributed Simulation  
Nodes by Keeping Timestep  
Schedulers in Lockstep

Signature \_\_\_\_\_

Date \_\_\_\_\_

a. ☐ within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);

☐ within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;

☒ before the mailing date of a first Office Action on the merits; or

☐ before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

b. ☐ after the events of above paragraph 1a and prior to the mailing date of a final Office Action or Notice of Allowance, and thus: ☐ the certification of paragraph 2 below is provided, or ☐ a fee of \$180.00 is enclosed.



- c. ☐ after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.

2. It is hereby certified:

- ☐ that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or
- ☐ that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement.

3. ☒ Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:

U.S. Patent Application Serial No. 10/007,816 (5681-03600)  
U.S. Patent Application Serial No. 09/262,575 (5181-11900)  
U.S. Patent Application Serial No. 10/010,572 (5181-97900)  
U.S. Patent Application Serial No. 10,008,271 (5181-96500)  
U.S. Patent Application Serial No. 10/008,255 (5181-96400)  
U.S. Patent Application Serial No. 10/008,155 (5181-96300)  
U.S. Patent Application Serial No. 10/008,270 (5181-96200)  
U.S. Patent Application Serial No. 09/262,545 (5181-11802)

4. For each non-English language reference listed on the attached Form PTO-1449:

- ☐ reference is made to an English language translation submitted herewith, and/or
- ☐ reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or
- ☐ reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or
- ☐ reference is made to the concise explanation contained in the specification of the present application at page(s) \_\_\_\_\_, and/or
- ☐ reference is made to the concise explanation set forth below:

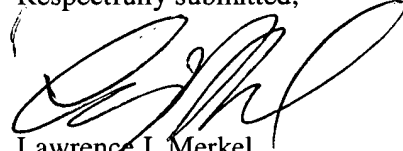
5. ☐ Applicant also offers the following comments for the Examiner's consideration:

6. ☐ Also enclosed is a copy of a foreign search report citing these references.

7. ☐ The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application.
8. ☐ Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.

If any required fees are missing, the Commissioner is authorized to charge said fees to Conley, Rose & Tayon, P.C. Deposit Account No. 50-1505/5181-98000/LJM.

Respectfully submitted,



Lawrence J. Merkel  
Reg. No. 41,191  
Agent for Applicant(s)

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Date: 2/13/02

FEB 25 2002

Page 1 of 3

**Form PTO-1449** (modified)

List of Patents and Publications  
For Applicant's Information  
Disclosure Statement  
(Use several sheets if necessary)

ATTY. DKT. NO. 5181-98000

APPLICANT: Sivier, et al.

FILING DATE: November 9, 2001

SERIAL NO. 10/008,643

GROUP: 2123

**U.S. PATENT DOCUMENTS**

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	A1	5,812,824	9/22/98	Dearth, et al.			
	A2	5,732,247	3/24/98	Dearth, et al.			
	A3	5,881,267	3/9/99	Dearth, et al.			
	A4	5,848,236	12/8/98	Dearth, et al.			
	A5	6,031,987	2/29/00	Damani, et al.			
	A6	5,910,903	6/8/99	Feinberg, et al.			
	A7	5,850,345	12/15/98	Son			
	A8	6,053,947	4/25/00	Parson			
	A9	5,870,585	2/9/99	Stapleton			
	A10	5,751,941	5/12/98	Hinds, et al.			
	A11	5,634,010	5/27/97	Ciscon, et al.			
	A12	6,117,181	9/12/00	Dearth, et al.			
	A13	5,519,848	5/21/96	Wloka, et al.			
	A14	5,442,772	8/15/95	Childs, et al.			
	A15	5,339,435	8/19/94	Lukin, et al.			
	A16	4,456,994	6/26/84	Segarra			
	A17	5,625,580	4/29/97	Read, et al.			
	A18	5,715,184	2/3/98	Tyler, et al.			
	A19	5,794,005	8/11/98	Steinman			
	A20	5,907,695	5/25/99	Dearth			
	A21	4,821,173	4/11/89	Young, et al.			
	A22	4,937,173	6/26/90	Kanda, et al.			
	A23	5,185,865	2/9/93	Pugh			
	A24	5,327,361	7/5/94	Long, et al.			
	A25	5,455,928	10/3/95	Herlitz			
	A26	6,345,242	2/5/02	Dearth, et al.			

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Information Disclosure Statement--PTO 1449 (modified)

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Page 2 of 3

<b>Form PTO-1449</b> (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)	ATTY. DKT. NO. 5181-98000  APPLICANT: Sivier, et al.  FILING DATE: November 9, 2001	SERIAL NO. 10/008,643  GROUP: 2123
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**OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

A28	"Rule Base Driven Conversion of an Object Oriented Design Structure Into Standard Hardware Description Languages," Verschueren, A.C., IEEE Xplore, appears in Euromicro Conference, 1998, Proceedings. 24 <sup>th</sup> , vol. 1, August 25, 1998, pages 42-45.
A29	"Modeling Communication with Objective VHDL," Putzke, et al., IEEE Xplore, appears in Verilog HDL Conference and VHDL International Use Forum, 1998, IVC/VIUF, Proceedings., 1998 International, March 16, 1998, pages 83-89.
A30	"A Procedural Language Interface for VHDL and its Typical Applications," Martinolle, et al., IEEE Xplore, appears in Verilog HDL Conference and VHDL International Use Forum, 1998, IVC/VIUF, Proceedings., 1998 International, March 16, 1998, pages 32-38.
A31	"The Verilog Procedural Interface for the Verilog Hardware Description Language," Dawson, et al., IEEE Xplore, appears in Verilog HDL Conference, 1996, Proceedings., 1996 International, February 26, 1996, pages 17-23.
A32	"An Integrated Environment for HDL Verification," York, et al., IEEE Xplore, appears in Verilog HDL Conference, 1995, Proceedings., 1995 International, March 27, 1995, pages 9-18.
A33	"The PowerPC 603 C++ Verilog Interface Model," Voith, R.P., IEEE Xplore, appears in Compcon Spring '94, Digest of Papers, Feb. 28, 1994, pages 337-340.
A34	"Networked Object Oriented Verification with C++ and Verilog, Dearth, et al., IEEE, XP-002144328, 1998, 4 pages.
A35	Patent Abstracts of Japan, publication no. 10326835, published December 8, 1998.
A36	Patent Abstracts of Japan, publication no. 10049560, published February 20, 1998.
A37	Patent Abstracts of Japan, publication no. 10340283, published December 22, 1998.
A38	Patent Abstracts of Japan, publication no. 07254008, published October 3, 1995.
A39	"Multiprocessing Verilog Simulator Exploits the Parallel Nature of HDLs." Lisa Maliniak, Electronic Design, Abstract, May 30, 1994, 1 page.
A40	"It's A Multithreaded World, Part I," Charles J. Northrup, BYTE, May 1992, 7 pages.
A41	"It's a Multithreaded World, Part 2," Charles J. Northrup, BYTE, June 1992, pp. 351-356.
A42	"Weaving a Thread," Shashi Prasad, BYTE, October 1995, pp. 173-174.
A43	"Making Sense of Collaborative Computing," Mark Gibbs, Network World Collaboration, January 10, 1994, 4 pages.
A44	"Parallel Logic Simulation of VLSI Systems," Bailey, et al., ACM Computing Surveys, Vol. 26, No. 3, September 1994, pp. 255-294.
A45	"Multithreaded Languages for Scientific and Technical Computing," Cherri M. Pancake, Proceedings of the IEEE, Vol. 81, No. 2, February 1993, pp. 288-304.
A46	"Distributed Simulation Architecture, SW Environment, Enterprise Server Products," Purdue EE400 Presentation by Freyensee and Frankel, November 9, 2000, 13 pages.

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Information Disclosure Statement--PTO 1449 (modified)

<p><b>Form PTO-1449</b> (modified 10/98)          List of Patents and Publications          For Applicant's Information          Disclosure Statement          (Use several sheets if necessary)</p>	<p>ATTY. DKT. NO. 5181-98000</p> <p>APPLICANT: Sivier, et al.</p> <p>FILING DATE: November 9, 2001</p>	<p>SERIAL NO. 10/008,643</p> <p>GROUP: 2123</p>
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**OTHER ART** (Including Author, Title, Date, Pertinent Pages, Etc.)

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